Format No: CP/TF/01

# TEST REPORT ON BITUMEN

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-2018-02-06-07** | **Date: 09-02-2018** |
| **Customer** | : | Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore. | |
| **Address** | : | Dasarahalli Sub division, BBMP, Bangalore. | |
| **Project Name** | : | Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte. | |
| **Agency** | : | Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010. | |
| **Customer's Reference** | : | BBMP/EE//DD/WO/81/2017-18 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 06-02-2018 | |
| **Sample ID No** | : | 2018-02-06-07/01 | |
| **Sample Type** | : | Bitumen | |
| **Reference to BIS codes** | : | IS: 1201-1220(1978) (Reaffirmed-2004) | |
| **Date of test** | : | 07-02-2018 | |

## Test Results

| Sl.no | Name of Test | Result | Requirements as per IS:73-2013 |
|---|---|---|---|
| 1 | Penetration at 25°C , in 1/10th mm | **62** | 60 to 70 |
| 2 | Softening Point, °C | **49.6** | Min. 40°C |
| 3 | Ductility, cm | **93** | Min. 75cm |
| 4 | Flash point, °C | **265** | Min. 220°C |
| | Fire point, °C | **283** | |

**Note:**
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Authorized Signatory
**Quality Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-01-24-08** **Date: 29/01/2018**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

**Address** : Dasarahalli Sub division, BBMP, Bangalore.

**Project Name** : Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.

**Agency** : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

**Customer's Reference** : BBMP/EE//DD/WO/81/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 24-01-2018

**Sample ID No** : 2018-01-24-08 /01

**Customer ID** : M20 Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 29/01/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M20 Concrete | M20 | 22/01/2018 | 29/01/2018 | 150.20 X 150.32 X 150.14 | 22578 | 8.276 | 410.9 | 18.2 | 17.8 |
| 2 | M20 Concrete | M20 | 22/01/2018 | 29/01/2018 | 150.53 X 150.33 X 150.21 | 22629 | 8.288 | 396.0 | 17.5 | |
| 3 | M20 Concrete | M20 | 22/01/2018 | 29/01/2018 | 150.11 X 150.53 X 150.22 | 22596 | 8.198 | 402.2 | 17.8 | |

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**Quality Manager**

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-01-24-08** **Date: 19/02/2018**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

**Address** : Dasarahalli Sub division, BBMP, Bangalore.

**Project Name** : Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.

**Agency** : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

**Customer's Reference** : BBMP/EE//DD/WO/81/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 24-01-2018

**Sample ID No** : 2018-01-24-08 /02

**Customer ID** : M20 Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 19/02/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M20 Concrete | M20 | 22/01/2018 | 19/02/2018 | 150.30 X 150.24 X 150.21 | 22581 | 8.298 | 499.0 | 22.1 | 21.4 |
| 2 | M20 Concrete | M20 | 22/01/2018 | 19/02/2018 | 150.11 X 150.14 X 150.15 | 22538 | 8.256 | 482.3 | 21.4 | |
| 3 | M20 Concrete | M20 | 22/01/2018 | 19/02/2018 | 150.13 X 150.17 X 150.19 | 22545 | 8.232 | 466.7 | 20.7 | |

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# TEST REPORT OF CEMENT CONCRETE KERB STONE

**Lab ID** : **CP-2018-01-16-04** **Date: 20-01-2018**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

**Address** : Dasarahalli Sub division, BBMP, Bangalore.

**Project Name** : Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.

**Agency** : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

**Customer's Reference** : BBMP/EE//DD/WO/81/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 16-01-2018

**Sample ID No** : 2018-01-16-04 /04

**Sample Type /Size** : CC Kerb Stone/ 450*165*400mm

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete

**Date of test** : 16/01/2018

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | Kg | (Sq.mm) | (KN) | (N/mm2 ) | (N/mm2 ) | (N/mm2 ) |
| 1 | A | 100.24 | 165.33 | 2.785 | 7890 | 130.5 | 16.5 | 16.5 | 20.7 |
| 2 | B | 100.15 | 165.37 | 2.831 | 7876 | 132.9 | 16.9 | 16.9 | 21.1 |
| 3 | C | 100.33 | 165.26 | 2.746 | 7904 | 129.8 | 16.4 | 16.4 | 20.5 |

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# TEST REPORT OF PRECAST COVER SLAB

**Lab ID** : **CP-2018-01-23-06** **Date: 27-01-2018**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

**Address** : Dasarahalli Sub division, BBMP, Bangalore.

**Project Name** : Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.

**Agency** : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

**Customer's Reference** : BBMP/EE//DD/WO/81/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 23-01-2018

**Sample ID No** : 2018-01-23-06 /06

**Sample Type /Size** : Precast Cover Slab

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete

**Date of test** : 23/01/2018

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.14 | 100.26 | 1.325 | 4434 | 69.9 | 15.8 | 14.7 | 18.3 |
| 2 | Cover Slab-2 | 75.24 | 100.35 | 1.316 | 4445 | 72.3 | 16.3 | 15.1 | 18.9 |
| 3 | Cover Slab-3 | 75.48 | 100.53 | 1.339 | 4474 | 71.5 | 16.0 | 14.9 | 18.6 |

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